BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: 09/889,344 A

Source: OIPE

Date Processed by STIC: 7-22-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
       http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission**
   User Manual - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
   Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
          Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
   2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office,
   Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/888344

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

Raw Sequence Listing Error Summary .

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
    Wrapped Aminos· was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
    · prevent "wrapping."

2____Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
    Numbering use space characters, instead.

4·____Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
    ensure your subsequent submission is saved in ASCII text.

5____Variable Length Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
    each n or Xaa can only represent a single residue. Please present the maximum number of each
    residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
    "bug" sequences(s) _____. Normally, PatentIn would automatically generate this section from the
    previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
    the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
    Artificial or Unknown sequences.

7____Skipped Sequences Sequence(s)_____missing. If intentional, please insert the following lines for each skipped sequence:
    (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    This sequence is intentionally skipped

    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences Sequence(s)_____missing. If intentional, please insert the following lines for each skipped sequence.
    (NEW RULES). <210> sequence id number
    <400> sequence id number
    000

9____Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
    (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
    Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
    is Artificial Sequence

11 ✓ Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
    "Unknown." Please explain source of genetic material in <220> to <223> section.
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0 Please do not use "Copy to Disk" function f PatentIn version 2.0. This causes a corrupted file,
    "bug" resulting in missing mandatory numeric identifiers and responses (as indicated n raw sequence
    listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

Does Not Comply
Corrected Diskette Needed

OIPE

```
          RAW SEQUENCE LISTING              DATE: 07/22/2002
          PATENT APPLICATION:  US/09/889,344A     TIME: 10:40:33

          Input Set : A:\USSEQLIST2.txt
          Output Set: N:\CRF3\07222002\I889344A.raw

   4 <110> APPLICANT: CHEN, WENFANG
   5        MEEK, THOMAS D.
   6        POWELL, DAVID J.
   7        TEW, DAVID G.
  10 <120> TITLE OF INVENTION: Method of Site Specific Labeling of Proteins and Uses
  11        Therefor
  14 <130> FILE REFERENCE: P50892
  16 <140> CURRENT APPLICATION NUMBER: 09/889,344A
  17 <141> CURRENT FILING DATE: 2001-07-16
  19 <150> PRIOR APPLICATION NUMBER: PCT/US00/01481
  20 <151> PRIOR FILING DATE: 2000-01-20
  22 <150> PRIOR APPLICATION NUMBER: US 60/117,327
  23 <151> PRIOR FILING DATE: 1999-01-22
  25 <160> NUMBER OF SEQ ID NOS: 16
  27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  29 <210> SEQ ID NO: 1
  30 <211> LENGTH: 5
  31 <212> TYPE: PRT
  32 <213> ORGANISM: Artificial Sequence
  34 <220> FEATURE:
  35 <221> NAME/KEY: unsure
  36 <222> LOCATION: (5)
  37 <223> OTHER INFORMATION: Where Xaa at position (5) can represent Leucine or Isoleucine
  39 <400> SEQUENCE: 1
W--> 40  Gln Ser Lys Val Xaa
  41   1                 5
  43 <210> SEQ ID NO: 2
  44 <211> LENGTH: 207
  45 <212> TYPE: PRT
  46 <213> ORGANISM: Artificial Sequence
  48 <220> FEATURE:
  49 <221> NAME/KEY: unsure
  50 <222> LOCATION: (1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)(14)(15)
  51 <222> LOCATION: (16)(17)(18)(19)(20)(21)(22)(23)(24)(25)(26)(27)(28)
W--> 52 <222> (29)(30)(31)(32)(33)(34)(35)(36)(37)(38)(39)(40)(41)
W--> 53 <222> (42)(43)(44)(45)(46)(47)(48)(49)(50)(51)(52)(53)(54)
W--> 54 <222> (55)(56)(57)(58)(59)(60)(61)(62)(62)(64)(65)(66)(67)
W--> 55 <222> (68)(69)(70)(71)(72)(73)(74)(75)(76)(77)(78)(79)(80)
W--> 56 <222> (81)(82)(83)(84)(85)(86)(87)(88)(89)(90)(91)(92)(93)
W--> 57 <222> (94)(95)(96)(97)(98)(99)(100)(101)(106)(107)(108)(109)
W--> 58 <222> (110)(111)(112)(113)(114)(115)(116)(117)(118)(119)(120)
W--> 59 <222> (121)(122)(123)(124)(125)(126)(127)(128)(129)(130)(131)
W--> 60 <222> (132)(133)(134)(135)(136)(137)(138)(139)(140)(141)(142)
```

See Item # 11 on ERROR Summary SHEET

RAW SEQUENCE LISTING DATE: 07/22/2002
PATENT APPLICATION: US/09/889,344A TIME: 10:40:33

Input Set : A:\USSEQLIST2.txt
Output Set: N:\CRF3\07222002\I889344A.raw

```
W--> 61 <222> (143)(144)(145)(146)(147)(148)(149)(150)(151)(152)(153)
W--> 62 <222> (154)(155)(156)(157)(158)(159)(160)(161)(162)(163)(164)
W--> 63 <222> (165)(166)(167)(168)(169)(170)(171)(172)(173)(174)(175)
W--> 64 <222> (176)(177)(178)(179)(180)(181)(182)(183)(184)(185)(186)
W--> 65 <222> (187)(188)(189)(190)(191)(192)(193)(194)(195)(196)(197)
W--> 66 <222> (198)(199)(200)(201)(202)(203)(204)(205)(206)(207)
     67 <223> OTHER INFORMATION: Where Xaa can represent none or any one of the twenty
naturally
     68 <223> OTHER INFORMATION: occurring amino acids
W--> 70 <400> 2
W--> 71  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     72  1               5                  10                  15
W--> 73  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     74               20                  25                  30
W--> 75  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     76               35                  40                  45
W--> 77  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     78            50                  55                  60
W--> 79  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     80  65                  70                  75                  80
W--> 81  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     82                  85                  90                  95
W--> 83  Xaa Xaa Xaa Xaa Xaa Gln Ser Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     84               100                 105                 110
W--> 85  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     86               115                 120                 125
W--> 87  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     88            130                 135                 140
W--> 89  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     90  145                 150                 155                 160
W--> 91  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     92               165                 170                 175
W--> 93  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     94            180                 185                 190
W--> 95  Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     96            195                 200                 205
     98 <210> SEQ ID NO: 3
     99 <211> LENGTH: 207
    100 <212> TYPE: PRT
    101 <213> ORGANISM: Artificial Sequence
    103 <220> FEATURE:
    104 <221> NAME/KEY: unsure
    105 <222> LOCATION: (1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)(14)(15)
    106 <222> LOCATION: (16)(17)(18)(19)(20)(21)(22)(23)(24)(25)(26)(27)(28)
W-->107 <222> (29)(30)(31)(32)(33)(34)(35)(36)(37)(38)(39)(40)(41)
W-->108 <222> (42)(43)(44)(45)(46)(47)(48)(49)(50)(51)(52)(53)(54)
W-->109 <222> (55)(56)(57)(58)(59)(60)(61)(62)(62)(64)(65)(66)(67)
W-->110 <222> (68)(69)(70)(71)(72)(73)(74)(75)(76)(77)(78)(79)(80)
W-->111 <222> (81)(82)(83)(84)(85)(86)(87)(88)(89)(90)(91)(92)(93)
W-->112 <222> (94)(95)(96)(97)(98)(99)(100)(101)(106)(107)(108)(109)
```

See item # 11 on ERROR Summary SHEET

RAW SEQUENCE LISTING   DATE: 07/22/2002
PATENT APPLICATION: US/09/889,344A   TIME: 10:40:33

Input Set : A:\USSEQLIST2.txt
Output Set: N:\CRF3\07222002\I889344A.raw

W--> 113 <222> (110)(111)(112)(113)(114)(115)(116)(117)(118)(119)(120)
W--> 114 <222> (121)(122)(123)(124)(125)(126)(127)(128)(129)(130)(131)
W--> 115 <222> (132)(133)(134)(135)(136)(137)(138)(139)(140)(141)(142)
W--> 116 <222> (143)(144)(145)(146)(147)(148)(149)(150)(151)(152)(153)
W--> 117 <222> (154)(155)(156)(157)(158)(159)(160)(161)(162)(163)(164)
W--> 118 <222> (165)(166)(167)(168)(169)(170)(171)(172)(173)(174)(175)
W--> 119 <222> (176)(177)(178)(179)(180)(181)(182)(183)(184)(185)(186)
W--> 120 <222> (187)(188)(189)(190)(191)(192)(193)(194)(195)(196)(197)
W--> 121 <222> (198)(199)(200)(201)(202)(203)(204)(205)(206)(207)
     122 <223> OTHER INFORMATION: Where Xaa can represent none or any one of the twenty
naturally
     123 <223> OTHER INFORMATION: occurring amino acids
W--> 125 <400> 3
W--> 126 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     127 1   5   10   15
W--> 128 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     129   20   25   30
W--> 130 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     131   35   40   45
W--> 132 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     133   50   55   60
W--> 134 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     135 65   70   75   80
W--> 136 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     137   85   90   95
W--> 138 Xaa Xaa Xaa Xaa Xaa Gln Ser Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     139   100   105   110
W--> 140 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     141   115   120   125
W--> 142 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     143   130   135   140
W--> 144 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     145 145   150   155   160
W--> 146 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     147   165   170   175
W--> 148 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     149   180   185   190
W--> 150 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     151   195   200   205
     153 <210> SEQ ID NO: 4
     154 <211> LENGTH: 10
     155 <212> TYPE: PRT
     156 <213> ORGANISM: Artificial Sequence
     158 <220> FEATURE:
     159 <223> OTHER INFORMATION: Derivative of a factor XIII substrate
     161 <400> SEQUENCE: 4
     162 Leu Ser Leu Ser Gln Ser Lys Val Leu Gly
     163 1   5   10
     165 <210> SEQ ID NO: 5
     166 <211> LENGTH: 10

RAW SEQUENCE LISTING   DATE: 07/22/2002
PATENT APPLICATION: US/09/889,344A   TIME: 10:40:33

Input Set : **A:\USSEQLIST2.txt**
Output Set: **N:\CRF3\07222002\I889344A.raw**

```
167 <212> TYPE: PRT
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Derivative of a factor XIII substrate
173 <400> SEQUENCE: 5
174  Ile Gly Glu Gly Gln Ser Lys Val Leu Gly
175   1               5                  10
177 <210> SEQ ID NO: 6
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Derivative of a factor XIII substrate
185 <400> SEQUENCE: 6
186  Leu Gly Pro Gly Gln Ser Lys Val Ile Gly
187   1               5                  10
189 <210> SEQ ID NO: 7
190 <211> LENGTH: 81
191 <212> TYPE: DNA
192 <213> ORGANISM: Unknown
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag
197 <400> SEQUENCE: 7
198  tgtacctcag accatatgag cctgtccctg tcccagtcca aagttctgcc gggtccgagc    60
199  actatcgaag aacgcgttaa g                                              81
201 <210> SEQ ID NO: 8
202 <211> LENGTH: 37
203 <212> TYPE: DNA
204 <213> ORGANISM: Unknown
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag
209 <400> SEQUENCE: 8
210  tgatgtcagt caagcttacg cctggtggcc gttgatg                            37
212 <210> SEQ ID NO: 9
213 <211> LENGTH: 14
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Derivative of a factor XIII substrate
220 <400> SEQUENCE: 9
221  Met Ser Leu Ser Leu Ser Gln Ser Lys Val Leu Pro Gly Pro
222   1               5                  10
224 <210> SEQ ID NO: 10
225 <211> LENGTH: 37
226 <212> TYPE: DNA
227 <213> ORGANISM: Unknown
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag
232 <400> SEQUENCE: 10
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RAW SEQUENCE LISTING   DATE: 07/22/2002
PATENT APPLICATION: US/09/889,344A   TIME: 10:40:33

Input Set : A:\USSEQLIST2.txt
Output Set: N:\CRF3\07222002\I889344A.raw

```
233  tgtacctcag accatatgag cactatcgaa gaacgcg                      37
235 <210> SEQ ID NO: 11
236 <211> LENGTH: 78
237 <212> TYPE: DNA
238 <213> ORGANISM: Unknown
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag
243 <400> SEQUENCE: 11
244  tgatgtcagt caagcttacg gacccggcag aactttggac tgggacaggg acagcgcctg    60
245  gtggccgttg atgtaatc                                           78
247 <210> SEQ ID NO: 12
248 <211> LENGTH: 12
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Derivative of E. coli ACP protein
255 <400> SEQUENCE: 12
256  Leu Ser Leu Ser Gln Ser Lys Val Leu Pro Gly Pro
257   1               5                   10
259 <210> SEQ ID NO: 13
260 <211> LENGTH: 92
261 <212> TYPE: DNA
262 <213> ORGANISM: Unknown
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag into
266       Streptococcus haemophilus FabH gene
268 <400> SEQUENCE: 13
269  tatcatatga gcctgtccct gtcccagtcc aaagttctgc cgggtccggg taccctcgag    60
270  ggatccgctt ttgcaaaaat aagtcaggtt gc                           92
272 <210> SEQ ID NO: 14
273 <211> LENGTH: 53
274 <212> TYPE: DNA
275 <213> ORGANISM: Unknown
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Oligonucleotide designed to introduce Q tag into
279       Streptococcus haemophilus FabH gene
281 <400> SEQUENCE: 14
282  ctcagatctg agctcactag tggatcctta aattgtaaga atgagcgtgc ccc          53
284 <210> SEQ ID NO: 15
285 <211> LENGTH: 364
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Modified sequence of Streptococus haemophilus FabH
292 <400> SEQUENCE: 15
293  Met Gly His His His His His His His His His Ser Ser Gly His
294   1               5                   10                  15
295  Ile Glu Gly Arg His Met Ser Leu Ser Leu Ser Gln Ser Lys Val Leu
296                  20                  25                  30
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/22/2002
PATENT APPLICATION: US/09/889,344A   TIME: 10:40:34

Input Set : **A:\USSEQLIST2.txt**
Output Set: **N:\CRF3\07222002\I889344A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; Xaa Pos. 5
Seq#:2; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:2; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:2; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60
Seq#:2; Xaa Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79
Seq#:2; Xaa Pos. 80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98
Seq#:2; Xaa Pos. 99,100,101,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:2; Xaa Pos. 118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:2; Xaa Pos. 132,133,134,135,136,137,138,139,140,141,142,143,144,145
Seq#:2; Xaa Pos. 146,147,148,149,150,151,152,153,154,155,156,157,158,159
Seq#:2; Xaa Pos. 160,161,162,163,164,165,166,167,168,169,170,171,172,173
Seq#:2; Xaa Pos. 174,175,176,177,178,179,180,181,182,183,184,185,186,187
Seq#:2; Xaa Pos. 188,189,190,191,192,193,194,195,196,197,198,199,200,201
Seq#:2; Xaa Pos. 202,203,204,205,206,207
Seq#:3; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:3; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:3; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60
Seq#:3; Xaa Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79
Seq#:3; Xaa Pos. 80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98
Seq#:3; Xaa Pos. 99,100,101,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:3; Xaa Pos. 118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:3; Xaa Pos. 132,133,134,135,136,137,138,139,140,141,142,143,144,145
Seq#:3; Xaa Pos. 146,147,148,149,150,151,152,153,154,155,156,157,158,159
Seq#:3; Xaa Pos. 160,161,162,163,164,165,166,167,168,169,170,171,172,173
Seq#:3; Xaa Pos. 174,175,176,177,178,179,180,181,182,183,184,185,186,187
Seq#:3; Xaa Pos. 188,189,190,191,192,193,194,195,196,197,198,199,200,201
Seq#:3; Xaa Pos. 202,203,204,205,206,207
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VERIFICATION SUMMARY   DATE: 07/22/2002
PATENT APPLICATION: **US/09/889,344A**   TIME: 10:40:34

Input Set : **A:\USSEQLIST2.txt**
Output Set: **N:\CRF3\07222002\I889344A.raw**

```
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:52 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:54 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:55 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:56 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:57 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:58 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:59 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:60 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:61 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:62 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:63 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:64 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:65 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:66 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:70 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:112
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:128
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:144
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:160
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:176
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:192
L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:108 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:109 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:110 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:111 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:112 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:113 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:114 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:115 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:116 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:117 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:118 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:119 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:120 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:121 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:125 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
```

VERIFICATION SUMMARY   DATE: 07/22/2002
PATENT APPLICATION: **US/09/889,344A**   TIME: 10:40:34

Input Set : **A:\USSEQLIST2.txt**
Output Set: **N:\CRF3\07222002\I889344A.raw**

```
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:80
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:96
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:112
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:128
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:144
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:160
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:176
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:192
```